Surveillance Requirements/Technology
APPENDIX G
SURVEY RESULTS ON EXISTING AND PLANNED SURVEILLANCE SYSTEMS

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EXISTING AND PLANNED SURVEILLANCE SYSTEMS BY AGENCY

Satisfaction	M	Ŧ	M	Σ	Ţ	I				Η	Τ	H	н	M	Σ	I	Ŧ											
Purpose	Planning data	Signal system	Incident detect	Incident detect	Incident verf Monitor	WIM	Incident detect	Incident verf Monitor	Incident detection algorithm change	Weather	Incident detect	Height measure	CO detect	Weight measure	Weight measure	Accident detect	Incident detect	Toll collect	Toll collect	Weigh station	Remote traffic mgmt	ЕТТМ						
Communication Purpose Medium	None & Dial-up	Data-line	Data-line	Data-line	Fiber	Dial-up	Data-line	T-1 Line	Fiber	Telephone	Fiber		Coax	Telephone	Telephone	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber	Leased line						
Data Code (See Table 2)	1,3,4,14	1,2,3	1,3	1,3	S	1,3,6,14	1,3	2	13	7,8	5	14	10	4,6	4,6	2	5	4		9	5	1, 4, 5				2	5	
Polling Rate			650 ms	650 ms	13fr/sec		Realtime	Realtime		15 min	Const	Const	Const	Const	Const	Const	Const	Const	Const	Const	Const							
Quantity	370	800	15	29	2	3	216	91		1	26	9		-	1	4	4	1	1	-	1		2	3	1	2	-	7
Sensor Code (See Table 1)	-	-	5	5	11	17	5	Ξ	22	20	1	6	22	13	13	11	11	18	19	19	Ξ	18	20	20	20	=	Ξ	1
Freeway/ Arterial	F&A	A	F	ī.	Ŀ	L.	ш	L.	L.	A	Ŀ	Ŀ	Ľ.	il.	٧	Ŀ	L	Ŀ	Ł	Ŀ	Ŀ	ш	L	ų.	Ц	L.	Ŀ	F
Length, miles			2.2	9.4			56	56	56	0.3	1.6	1.6	1.6			1	1	30				105						
Highway Name	Various	Various	I-84	1-91	1-91	1-84, 1-91	-95	1-95	1-95	Mich. Ave. Bridge	1-395	1-395	1-395	1-295	South Bridge	9th St Expr	12th St. Expr	1-95		Rte 13			1-270	1-695	US 50	1-270	US 50	1-270
Existing/ Planned	Existing						Planned			Existing	Planned							Planned				Planned	Existing					
Agency	Conn. DOT									D.C. DPW								DEL DOT				Maine TA	MDSHA					

MD SHA Planned 1-270 (Cont.) 1-495 1-95 1-895	11 45 45 12 6 6		20 20 20 20 20 20 20 20 20 20 20 20 20 2	8 91	Table 2)			
Existing Planned	11 45 45 11 3 8 8		S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 91				
Existing	3 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		S n n n n n	16				
Existing	45 12 51 6 6 3		20 20 20 20					
Existing	12 6 6 3		20 20 20 20	20				
Existing	3 6	<u></u>	2 2 2	2				
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Existing	е п	<u></u>	20 2	2				
Existing		<u></u>	8	4				
Existing		<u>u u u u u u </u>	_	2				
Existing		<u></u>	20	9				
Existing		11. (1. 1.	20	9				
Existing		LL L	20	5				
Existing		4	11	14	5			
Existing		_	=	10	5			
Existing			1-	7	5			
Existing		L	-	3	2			
Existing Planned		4	11	15	ß			
Existing		ட	11	10	ည			
Existing Planned		4	1	11				
Existing Planned		tL.	1	14				
Existing Planned		ų.	1	12				
	4	4	11	64	ယ	Hardwire	Incident detect	I
	2	ıL	11	32	5	Fiber	Incident detect	H
1-95	14	Ь	5	9	 င	Telephone	Incident detect	
56-1	14	ц	11	3	5	Fiber	Incident detect	
	45	Ŧ	1,5	17	1, 3, 4	Telephone	Incident detect	
1-95	1	ட	50	4	 7,8	Telephone	Weather	
1-895	16	4	1,5	8	-	Telephone	Incident detect	
1-395	1	u.	11	3	2	Microwave	Incident detect	
NH DOT Existing 1-95	o	ıL	1	1	1	Manual	Volume	I
US 1		A	1	1	-	Manual	Volume	I
SR-393	0	٧			9	Telephone	WIM	

Saus	Ice detection	Incident detect		incident detect	Incident detect	Incident detect Incident detect Incident detect	Incident detect Incident detect Incident detect Incident detect	Incident detect Incident detect Incident detect Incident detect	Incident detect			30 30 30 30 30 30 30 30 30 30 30 30 30 3	20 20 20 20 20 20 20 20 20 20 20 20 20 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Incident detect Sign control Fog detect Incident detect Sign control Surveillance	Incident detect Sign control Fog detect Incident detect Incident detect Incident detect	Incident detect Sign control Fog detect Incident detect Incident detect Incident detect Incident detect Incident detect Vol-speed monitor	Incident detect Sign control Fog detect Incident detect Incident detect Incident detect Incident detect Surveillance Vol-speed monitor Surveillance	Incident detect Sign control Fog detect Incident detect Incident detect Incident detect Surveillance Vol-speed monitor Surveillance Incident detect	Incident detect Sign control Fog detect Incident detect Surveillance Surveillance Surveillance Incident detect Incident detect Incident detect Incident detect Incident detect Surveillance Incident detect	Incident detect Sign control Fog detect Incident detect Surveillance Surveillance Incident detect Ramp Metering	Incident detect Sign control Fog detect Incident detect Surveillance Incident detect Ramp Metering	Incident detect Incident detect Incident detect Incident detect Incident detect Incident detect Sign control Fog detect Incident detect Surveillance Incident detect	Incident detect Incident detect Incident detect Incident detect Incident detect Incident detect Sign control Fog detect Incident detect Surveillance Incident detect Incident detect Incident detect Incident detect Surveillance Incident detect Surveillance Incident detect Ramp Metering	Incident detect Sign control Fog detect Incident detect Surveillance Incident detect Surveillance Incident detect Ramp Metering	Incident detect Sign control Fog detect Incident detect	Incident detect Sign control Fog detect Incident detect Surveillance Incident detect Surveillance Incident detect Surveillance Incident detect
Data Communication Purpose Code (See Medium Table 2)	Telephone	Fiber							Copper	والمراجعة المراجعة المرا																	
7,8		1,2,3	2	1, 2, 3, 5		1, 2, 3, 5	1, 2, 3, 5	1, 2, 3, 5 1, 2, 3, 5 5	1,2,3,5 1,2,3,5 5 1,2,3,4	1, 2, 3, 5 1, 2, 3, 5 5 1, 2, 3, 4 1, 2, 3, 4	1,2,3,5 1,2,3,5 1,2,3,4 1,2,3,4	1,2,3,5 1,2,3,5 1,2,3,4 1,2,3,4 1	1,2,3,5 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4	1,2,3,5 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 5	1,2,3,5 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 5	1,2,3,5 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4	1,2,3,5 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 5 6 1,2,3,4 1,2,3,4	1,2,3,5 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 5 5	1,2,3,5 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4	1, 2, 3, 5 1, 2, 3, 5 1, 2, 3, 4 1, 3, 4 1, 4, 4 1, 4, 4 1, 5, 5 1, 5, 6 1, 5, 6 1, 5, 7 1, 7	1, 2, 3, 5 1, 2, 3, 5 1, 2, 3, 4 1, 2, 3, 4	1, 2, 3, 5 1, 2, 3, 4 1, 2, 3, 4	1, 2, 3, 5 1, 2, 3, 4 1, 2, 3, 4	1, 2, 3, 5 1, 2, 3, 4 1, 2, 3, 4	1, 2, 3, 5 1, 2, 3, 4 1, 3, 4 1, 4, 5 1, 4, 5 1,	1,2,3,5 1,2,3,4 1,3,4 1,4,4 1,	1, 2, 3, 5 1, 2, 3, 4 1, 3, 4 1, 4, 5 1, 5
									09 C	++++	 	 	 														
		23	2	76	12		2									 					┞┞┞┞┞╏┩┩┡┈╸┡╺╏┩┞╺┞ ╬╾						
Arterial Code (See Table 1)	22	-	11	-	5	10		11	1 1	11 1	3, 6, 10	11 1 3,6,1(11 1 3, 6, 10 1 22 1	11 1 3,6,10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 2 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 3,6,11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1	11 11 11 11 11 11 11 11 11 11 11 11 11	11 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 3,6,1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 11 11 11 11 11 11 11 11 11 11 11	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	1	11	0	11	=	=	173		46	46 46	46 46 72	46 46 72 122	46 46 72 122 4,4	46 46 47 47 47 47 47													
Planned	GSP	GSP	GSP	GSP	GSP	GSP	GSP								Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges	Holtand/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holtand/Lincoln Tunnel	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel Newark Int Air	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel Newark Int Air Newark Int Air Holland/Lincoln Tunnel	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel Newark Int Air Newark Int Air Newark Int Air Newark Int Air	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel Newark Int Air Newark Int Air Newark Int Air Newark Int Air Holland/Lincoln Tunnel	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel Newark Int Air Newark Int A	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel Newark Int Air Newark Int Air Newark Int Air Newark Int Air Seway Int Air Holland/Lincoln Tunnel Feway S. State Pkway S. State Pkway	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel Newark Int Air Newark Int Air Newark Int Air Newark Int Air Holland/Lincoln Tunnel 1-495 & N. State PkWay S. State Pkway Lower Huds. Vily	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel Newark Int Air Newark Int Air Newark Int Air Holland/Lincoln Tunnel 1-495 & N. State PkWay S. State Pkway Lower Huds. Villy NY City	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel Newark Int Air Holland/Lincoln Tunnel Lower Huds. Villy NY City 1-87	Holland/Lincoln Tunnel, GW Bridge, Goethals/ Bayonne Bridges Holland/Lincoln Tunnel Newark Int Air Newark Int Air Holland/Lincoln Tunnel Lower Huds. Vily NY City 1-87
Planned	Existing	Planned	<u> </u>		<u> </u>	<u> </u>	<u>. </u>	Evicting	ביים ביים	A Rimory	Planned	Planned	Planned	Planned													
÷	NJHA							NJTA							Port Authority of NY & NJ	Port Authority of NY & NJ	Port Authority of NY & NJ	Port Authority of NY & NJ	Port Authority of NY & NJ	Port Authority of NY & NJ	Port Authority of NY & NJ NYC DOT NYS DOT	Port Authority of NY & NJ NYC DOT	Port Authority of NY & NJ NYC DOT NYS DOT	Port Authority of NY & NJ NYC DOT NYS DOT	Port Authority of NY & NJ NYC DOT NYS DOT NYS DOT Thruway	Port Authority of NY & NJ NYS DOT NYS DOT NYS Thruway Penn DOT	Port Authority of NY & NJ NYC DOT NYS DOT NYS DOT Thruway Penn DOT

6 7 T1 300 30 sec 1,4,6 Microwave 115 30 sec 1,4,6 Microwave 10 30 sec 1,3 Fiber 26 30 sec 1,3 Fiber 26 30 sec 1,2,3 Coax 26 30 sec 1,2,3 Coax 26 0.25 sec 1,2,3 Coax 10 Const 5 Coax 10 Const 5 Coax 10 Const 5 Coax 1 1,3,4 Telephone 1 1,3,4 Telephone 1 6 Telephone 1 6 Telephone 1 1,3,4 Telephone 1 6 Telephone 1 1,3,4 Telephone 1 6 Telephone 1 6 Telephone 1 6 Telephone 2	Agency	Existing/ Planned	Existing/ Highway Name Planned	Length, miles	Freeway/ Arterial	Sensor Code (See Table 1)	Quantity	Polling Rate	Data Code (See Table 2)	Communication Purpose Medium	Purpose	Satisfaction
Existing E.W. Mainline 360 F 1,16 30 sec 1,4,6 Microwave M.E. Extension 110 F 1,16 115 30 sec 1,4,6 Microwave Microwave Slue-Krit Tunnel 1 F 1,11 26 30 sec 1,3 Fiber 1,3 Fi	enn DOT Cont.)		1-676	2	Ľ.	‡	9		2	1.1	Incident detect	
N.E. Extension 110 F 1,16 115 30 sec 1,4,6 Microwave Blue-Kit Tunnel 1 F 11 16 1,3 Fiber 1,3 Fiber 1,3 Fiber 1,4 F 1,1 16 1,3 Fiber 1,	TC	Existing	E.W. Mainline	360	Ŀ	1, 16	300	30 sec	4,	Microwave	Toll collect	W
Blue-Kit Tunnel			N.E. Extension	110	F	1, 16	115	30 sec	1, 4, 6	Microwave	Toll collect	×
The Existing			Blue-Kit Tunnel	1	ч.	11	16		1,3	Fiber	Incident detect	Σ
Table Leftligh Tunnel			Blue-Kit Tunnel	1	F	22	10	30 sec	10	Coax	CO detect	Σ
T Existing F 1 1 1,3 Telephone Planned 10 F 1 300 0.25 sec 1,2,3 Coax 1-395 10 F 11 350 0.25 sec 1,2,3 Coax 1-395 10 F 11 13 Const 5 Coax 1-395 10 F 11 13 Const 5 Coax 1-395 10 F 11 26 Const 5 Coax 1-395 0.05 F 17 1 1 1,3,4 Telephone 1-295 0.1 F 17 1 1,3,4 Telephone 1-295 0.1 F 17 1 1,3,4 Telephone 1-64 0.05 F 17 1 1,3,4 Telephone 1-64 0.05 F 17 1 1,3,4 Telephone 1-64 0.05			LeHigh Tunnel	1	F	1,11	26	30 sec	1,3	Fiber	Incident detect	Σ
Existing left 10 F 1 300 0.25 sec 1,2,3 Coax 1-395 10 F 11 250 0.25 sec 1,2,3 Coax 1-395 10 F 11 13 Const 5 Coax 1-56 10 F 11 26 Const 5 Coax 1-55 10 F 11 26 Const 5 Coax 1-55 0 F 11 26 Const 5 Coax 1-55 0 F 11 26 Const 5 Coax 1-55 0 F 17 1 13 Telephone 1-55 0.05 F 17 1 13,4 Telephone 1-54 0.05 F 17 1 13,4 Telephone 1-54 0.05 F 17 1 13,3,4 Telephone 1-54 0.05	I DOT	Existing			4	1			1,3	Telephone	Incident detect	
Existing Hole 10 F 1 300 0.25 sec 1,2,3 Coax 1-395 10 F 11 250 0.25 sec 1,2,3 Coax 1-56 10 F 11 35 Const 5 Coax 1-395 10 F 11 26 Const 5 Coax 1-55 0.05 F 11 9 Const 7,8,9 Telephone 1-55 0.05 F 17 1 1,3,4 Telephone 1-55 0.1 F 17 1 6 Telephone 1-56 0.05 F 17 1 1,3,4 Telephone 1-54 0.05 F 17 1 1,3,4 Telephone 1-54 0.05 F 17 1 1,3,4 Telephone 1-54 0.05 F 1,7 1 1,3,4 Telephone 1-64 0.05 F		Planned								Fiber	Incident detect	
1-395 10 F 11 250 0.25 sec 1, 2, 3 Coax 1-66 10 F 11 13 Const 5 Coax 1-395 10 F 11 26 Const 5 Coax 1-95 0.05 F 11 9 Const 7, 8, 9 Telephone 1-95 0.05 F 17 1 1, 3, 4 Telephone 1-295 0.1 F 17 1 1, 3, 4 Telephone 1-295 0.1 F 17 1 1, 3, 4 Telephone 1-295 0.1 F 17 1 1, 3, 4 Telephone 1-295 0.1 F 1 1 1, 3, 4 Telephone 1-564 0.05 F 1 1 1, 3, 4 Telephone 1-564 0.05 F 1, 1, 1 360 60 sec 1, 2, 3, 4 Fiber 1-64	DOT	Existing	1-66	10	ч.	-	300	0.25 sec	1, 2, 3	Coax	Incident detect	Σ
1-66 10 F 11 13 Const 5 Coax 1-395 10 F 11 26 Const 5 Coax 1-35 1 F 11 9 Const 5 Coax 1-35 0.05 F 1 1 1,3,4 Telephone 1-295 0.01 F 17 1 6 Telephone 1-295 0.01 F 17 1 1,3,4 Telephone 1-295 0.01 F 17 1 6 Telephone 1-295 0.01 F 17 1 6 Telephone 1-54 0.05 F 1			1-395	10	ı	1	250	0.25 sec	1,2,3	Coax	Incident detect	×
1-395 10 F 11 26 Const 5 Coax 1-95 F 11 9 Const 5 Coax 1-95 0.05 F 1 1 1,3,4 Telephone 1-95 0.05 F 17 1 6 Telephone 1-295 0.1 F 17 1 6 Telephone 1-295 0.1 F 17 1 6 Telephone 1-295 0.05 F 1 1 1 Telephone 1-64 0.05 F 1 1 1 Telephone 1-564 0.05 F 1 1 1 1 Telephone 1-64 0.05 F 1 <td></td> <td></td> <td>1-66</td> <td>10</td> <td>Ŧ</td> <td>11</td> <td>13</td> <td>Const</td> <td>2</td> <td>Coax</td> <td>Incident detect</td> <td>Z</td>			1-66	10	Ŧ	11	13	Const	2	Coax	Incident detect	Z
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195 0.05 F 1 1 1, 3, 4 Telephone 1-95 0.06 F 17 1 6 Telephone 1-295 0.1 F 17 1 6 Telephone 1-295 0.1 F 17 1 6 Telephone 1-295 0.05 F 17 1 6 Telephone 1-64 0.05 F 17 1 6 Telephone 1-564 0.05 F 17 1 6 Telephone 1-564 0.05 F 17 1 6 Telephone 1-64 1.2 1 1 1.3,4 Telephone 1-64 1.2 1 1 6 Telephone 1-64 1.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td< td=""><td></td><td></td><td>1-95</td><td></td><td>Ł</td><td>20</td><td>10</td><td>Const</td><td>6'8'2</td><td>Telephone</td><td>Road conditions</td><td>W</td></td<>			1-95		Ł	20	10	Const	6'8'2	Telephone	Road conditions	W
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1-295 0.1 F 17 1 6 Telephone 1-64 0.05 F 17 1 6 Telephone 1-564 0.05 F 17 1 6 Telephone 1-564 0.05 F 17 1 6 Telephone 1-64 12 F 1,17 360 60 sec 1,2,3,4 Fiber Rte 44 6 F 1,17 180 60 sec 1,2,3,4 Fiber 1-264 1 F 1,17 60 60 sec 1,2,3,4 Fiber 1-264 1 1 1000 0.25 sec 1,2,3,4 Fiber 1-35 20 F 1 1000 0.25 sec 1,2,3,4 Fiber 1-66 20 F 1 1000 0.25 sec 1,2,3,4 Fiber			1-295	0.1	ч	٦	1		ຕ້	Telephone	SPD	Ŧ
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1-564 0.05 F 17 1 6 Telephone 1-64 12 F 1,17 360 60 sec 1,2,3,4 Fiber Rte 44 6 F 1,17 180 60 sec 1,2,3,4 Fiber 1-264 1 F 1,17 60 60 sec 1,2,3,4 Fiber 1-95 20 F 1 1000 0.25 sec 1,2,3,4 Fiber 1-66 20 F 1 1000 0.25 sec 1,2,3,4 Fiber			1-564	0.05	ı.	1	-		1, 3, 4	Telephone	GAS	I
-64 12 F 1,17 360 60 sec 1,2,3,4 Fiber -264 1 F 1,17 60 60 sec 1,2,3,4 Fiber -264 1 F 1,17 60 60 sec 1,2,3,4 Fiber -95 20 F 1 1000 0.25 sec 1,2,3,4 Fiber -66 20 F 1 1000 0.25 sec 1,2,3,4 Fiber			1-564	0.05	F	17	1		9	Telephone	LТРР	H
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20 F 1 1000 0.25 sec 1, 2, 3, 4 Fiber			1-95	20	ш	-	1000	0.25 sec	1,2,3,4	Fiber	Incident detect	
			99-1	20	Ł	-	1000	0.25 sec	1,2,3,4	Fiber	Incident detect	

Agency	Existing/ Planned	xisting/ Highway Name Planned	Length, miles	Freeway/ Arterial	Sensor Code (See Table 1)	Quantity	Polling Rate	Data Code (See Table 2)	Length, Freeway/ Sensor Quantity Polling Data Communication Purpose miles Arterial Code (See Rate Table 1) Table 1)	Purpose	Satisfaction
VDOT (Cont.)		99-1		T.	11	11	Const	5 Fiber	Fiber	Incident detect	
		1-95		F	11	4	Const	5	Fiber	Incident detect	

TABLE 1 Sensor Codes

Sensor Category	Sub-category	Sensor
		Code
Vehicle detector	Inductive Loop	,
	Magnetic	2
	Magnetometer	3
	Pressure	4
	Radar	2
	Sonic, pulsed	ဖ
	Sonic, continuous wave	7
	Light emission photo-electric	8
	Infrared	6
	Video Image Processing	10
CCTV		11
Aerial Surveillance		12
Weigh-in-Motion (WIM)	Bending plate systems	13
	Capacitive systems	14
	Shallow weigh scales	15
	Deep-pit weigh scales	16
	Piezo-electric axle load sensors	
Automated Vehicle		18
Identification (AVI), including ETTM		
Automated Vehicle		19
Environmental/Weaher	SCAN	20
	LIDAR	21
	Other Environmental	22
OTHERS		23

TABLE 2: Sensor Data Types

Data Type	Code
Volume	-
Occupancy	2
Speed	3
Classification	4
Video Image	5
Weight	9
Pavement Temperature	7
Pavement Condition (Dry/wet/icy)	8
Visibility	6
CO-level	10
NOx-fevel	17
HC-level	12
Other environmental	13
OTHERS	14